



**DEPARTMENT OF THE NAVY  
HEADQUARTERS UNITED STATES MARINE CORPS  
WASHINGTON, DC 20380-0001**

MCO 5090.1  
LPP-2  
5 Oct 89

MARINE CORPS ORDER 5090.1

From: Commandant of the Marine Corps  
To: Distribution List

Subj: CHLOROFLUOROCARBONS (CFC's) AND HALONS

Encl: (1) Identification Chart  
(2) DoDDir 6050.9

Report Required: Procurement Data on Chlorofluorocarbons and Halon (Report Control Symbol DD-5090-01), par. 4b(5) (External Control Report Symbol DD-P&L(A)1804

1. Purpose. To establish policy and assign responsibilities for:

- a. The management of CFC's and halons in the Marine Corps.
- b. The identification of CFC's and halon applications and prioritization of their use.
- c. The long-term process of decreasing Marine Corps dependence on CFC's and halons because of reduced availability in future years due to recently promulgated international and domestic production limits.
- d. Research and development (R&D) programs to develop or evaluate suitable substitutes for halons and other mission-critical CFC applications.
- e. A tracking system to document Marine Corps annual requirements for CFC's and halons.

2. Scope. This Order applies to all Marine Corps activities, R&D and acquisition programs, and appropriated and nonappropriated fund operations.

3. Definition of CFC's and Halons. As of August 1988, these include CFC-11, CFC-12, CFC-113, CFC-114, CFC-115, Halon 1211, Halon 1301, and Halon 2402. (See enclosure (1).)

4. Policy

- a. The Commandant of the Marine Corps (CMC) (A and LF) will:

PCN 10207187000

(1) Identify and prioritize existing CFC and halon uses (i.e., structural, refrigeration, solvents, fire suppression systems, etc.) and applications to ensure available supplies meet mission-critical needs.

(2) Establish procedures to eliminate the unnecessary release of CFC's and halons into the atmosphere.

(3) Develop or adopt conservation practices, such as recycling, reuse, dilution, and substitution, when appropriate and consistent with mission requirement.

b. The Commanding General (CG), Marine Corps Research, Development, and Acquisition Command (MCRDAC) shall:

(1) Identify and prioritize any new CFC and halon uses (i.e., equipment and fire suppression systems) and applications to ensure adequate supplies are available to meet mission-critical needs.

(2) Review and modify military specifications to permit use of new processes, techniques, or chemicals for requirements currently being met by CFC's and halons.

(3) Conduct R&D to identify or develop alternate processes, chemicals, or techniques for functions currently being met by CFC's and halons.

(4) Adopt suitable substitutes when consistent with mission requirements.

(5) Collect procurement data on an annual basis and provide that data to the CMC (LPP) by 1 April of each year. The report is to be prepared using DD Form 2530 (Chlorofluorocarbons and Halon Annual Report) which is to be locally reproduced (see enclosure (2)). Report Control Symbol DD-5090-01 (External Report Control Symbol DD-P&L(A)1804) is assigned to this report.

(6) Modify testing practices to minimize the emissions of CFC's and halon when appropriate.

c. The CG Marine Corps Logistics Base (MCLB), Albany shall ensure the required amounts and types of CFC's and/or halons are available for mission-critical applications when substitutes are not yet available. This shall include emergency and mobilization requirements.

d. The CG Marine Corps Combat Development Command shall modify training practices to minimize the emissions of CFC's and halons, when appropriate. Establish mission requirements using broad terms which will enable MCRDAC to adopt suitable substitutes.

e. The CG's Fleet Marine Forces, Pacific and Atlantic and the CG's/commanders within the supporting establishment shall modify operational practices to minimize the emissions of CFC's and halons, when appropriate.

f. Discharges for the purpose of training fire personnel will be allowed to the extent necessary to maintain proficiency for mission requirements.

g. The CMC (LPP-2) shall be the central point of contact for policy and reporting. Actual program implementation will be the responsibility of the organizations identified in the preceding.

h. Records disposition:

(1) Marine Corps paper and electronic records tracking annual requirements uses for CFC's and halon.

Retention period: 3 years.

(2) Procurement data report annually using DD Form 2530.

CMC (LPP) copies - Retention: 3 years.

Marine Corps field command copies - Retention period: 3 years.



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# IDENTIFICATION CHART

NUMBER DESIGNATION	COMMON NAME	TYPICAL APPLICATIONS
CFC-11	Freon <u>1</u> /	Refrigerant
CFC-12	Freon <u>1</u> /	Refrigerant
CFC-113	Freon <u>1</u> /	Refrigerant
CFC-114	Freon <u>1</u> /	Refrigerant
CFC-115	Freon <u>1</u> /	Refrigerant
Halon 1211	Halon	Fire Extinguishing Agent
Halon 1301	Halon	Fire Extinguishing Agent
Halon 2402	Halon	Fire Extinguishing Agent

1/ Freon - Registered Trademark

ENCLOSURE (1)



Department Of Defense  
**DIRECTIVE**

MCO 5090.1  
LPP-2  
5 Oct 89  
February 13, 1989  
NUMBER 6090.9

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SUBJECT: Chlorofluorocarbons (CFCs) and Halons

References: (a) Montreal Protocol on Substances that Deplete  
the Ozone Layer(1)

(b) Protection of Stratospheric Ozone: U.S.  
Environmental Protection Agency (USEPA) Final  
Rule (Federal Register, Volume 53, page  
30566, August 12, 1988)

A. PURPOSE

This Directive establishes policy and assigns  
responsibilities for:

1. The management of CFCs and halons in the Department of  
Defense.
2. The identification of CFC and halon applications and  
prioritization of their uses.
3. The long-term process of decreasing DoD dependence on  
CFCs and halons because of reduced availability in future years  
due to recently promulgated international and domestic production  
limits (references (a) and (b)).
4. Research and development (R&D) programs to develop or  
evaluate suitable substitutes for halons and other  
mission-critical CFC applications.
5. A tracking system to document DoD's annual requirements  
for CFCs and halons.

B. APPLICABILITY AND SCOPE

This Directive applies to:

1. The Office of the Secretary of Defense (OSD), the  
Military Departments (including their National Guard and  
Reserve components), the Defense Agencies, and the DoD Field  
Activities (hereafter referred to collectively as  
"DoD Components").
2. The DoD R&D and Acquisition Program.
3. Appropriated and nonappropriated fund operations.

(1) Text is available from the U.S. Department of State. This  
protocol has been accepted by the United States and entered  
into force on 1 January 1989.

ENCLOSURE (2)

C. DEFINITION

Chlorofluorocarbons and Halons. As of August 1988, these include CFC-11, CFC-12, CFC-113, CFC-114, CFC-115, Halon 1211, Halon 1301, and Halon 2402. The protocol (reference (a)) is subject to periodic review, and additional chemicals may be added to the list.

D. POLICY

The DoD Components shall:

1. Establish procedures to eliminate the unnecessary release of these chemicals to the atmosphere.
2. Identify and prioritize CFC and halon uses and applications to ensure available supplies meet mission-critical needs.
3. Modify operational, training, and testing practices to minimize the emissions of CFCs and halons when appropriate.
4. Develop or adopt conservation practices such as recycling, reuse, dilution and substitution, when appropriate and consistent with mission requirements.
5. Adopt suitable substitutes when consistent with mission requirements.
6. Review and modify military specifications to permit use of new processes, techniques, or chemicals for requirements currently being met by CFCs and halons.
7. Conduct R&D to identify or develop alternate processes, chemicals, or techniques for functions currently being met by CFCs and halons.
8. Collect procurement data on an annual basis.
9. Establish a central point of contact to oversee implementation of all policies and programs required by this Directive.
10. Ensure the required amounts and types of CFCs and/or halons are available for mission-critical applications when substitutes are not yet available. This shall include emergency and mobilization requirements.

E. RESPONSIBILITIES

1. The Assistant Secretary of Defense (Production and Logistics) (ASD(P&L)) shall provide policy and management oversight for reducing DoD's long-term dependence on CFCs and halons including issues related to military specifications and annual procurement and demand.

2. The Deputy Under Secretary of Defense (Research & Advanced Technology) (DUSD(R&AT)) shall coordinate R&D programs, as appropriate, on alternative chemicals or technologies for fire and explosion suppression and, if necessary, other CFCs.

ENCLOSURE (2)

3. The Military Departments and Defense Agencies shall:

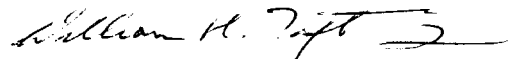
- a. Identify CFC and halon usages and prioritize with respect to mission-criticality.
- b. Establish review procedures to prevent or minimize use of CFCs and halons in existing and future systems.
- c. Implement conservation measures such as recycling, reuse, and modification of testing and training procedures when appropriate.
- d. Conduct R&D programs as needed to support mission requirements with emphasis on substitutes for halons.
- e. Modify requirements and military specifications to allow adoption of suitable substitutes for CFCs and halons in existing and future systems.
- f. Submit an annual report to ASD(P&L) containing:
  - (1) Aggregate procurement (by thousand pounds) of CFCs and halons for which they are the integrated item manager.
  - (2) Annual demand by Military Departments to include data on significant noncentralized CFC and halon procurements.
- g. Procure and store required amounts of CFCs and halons for mission-critical applications when substitutions are not yet available.

F. INFORMATION REQUIREMENTS

The annual procurement information required by section D., above, is assigned Report Control Symbol (RCS) DD-P&L(A) 1804. The DD Form 2530, Chlorofluorocarbons (CFCs) and Halon Annual Report (enclosure 1), is to be reproduced locally.

G. EFFECTIVE DATE AND IMPLEMENTATION

This Directive is effective immediately. Forward two copies of implementing documents to the Assistant Secretary of Defense (Production and Logistics) within 120 days.



William H. Taft, IV  
Deputy Secretary of Defense

Enclosure  
Chlorofluorocarbons (CFCs) and Halon Annual Report (DD Form 2530)

ENCLOSURE (2)

CHLOROFLUOROCARBONS (CFCs) AND HALON ANNUAL REPORT FOR CALENDAR YEAR _____							REPORT CONTROL SYMBOL	
1. PROCUREMENT* (in thousands of pounds)			2. DEMAND** (in thousands of pounds)					
	(1) Sum of Integrated Materiel Manager Reporting	(2) Local Purchase by Component	(3) New System Acquisition	(1) Army	(2) Navy	(3) Air Force	(4) Marines	(5) Other (Specify)
<b>CHEMICAL</b>								
a. CFC - 11								
b. CFC - 12								
c. CFC - 113								
d. CFC - 114								
e. CFC - 115								
f. HALON 1211								
g. HALON 1301								
h. HALON 2402								
<b>3. REMARKS</b>								

NOTES:  
 \* PROCUREMENT - Material purchased by component.  
 \*\* DEMAND - Material requested from procuring component to user or other military component.

DD Form 2530, NOV 88